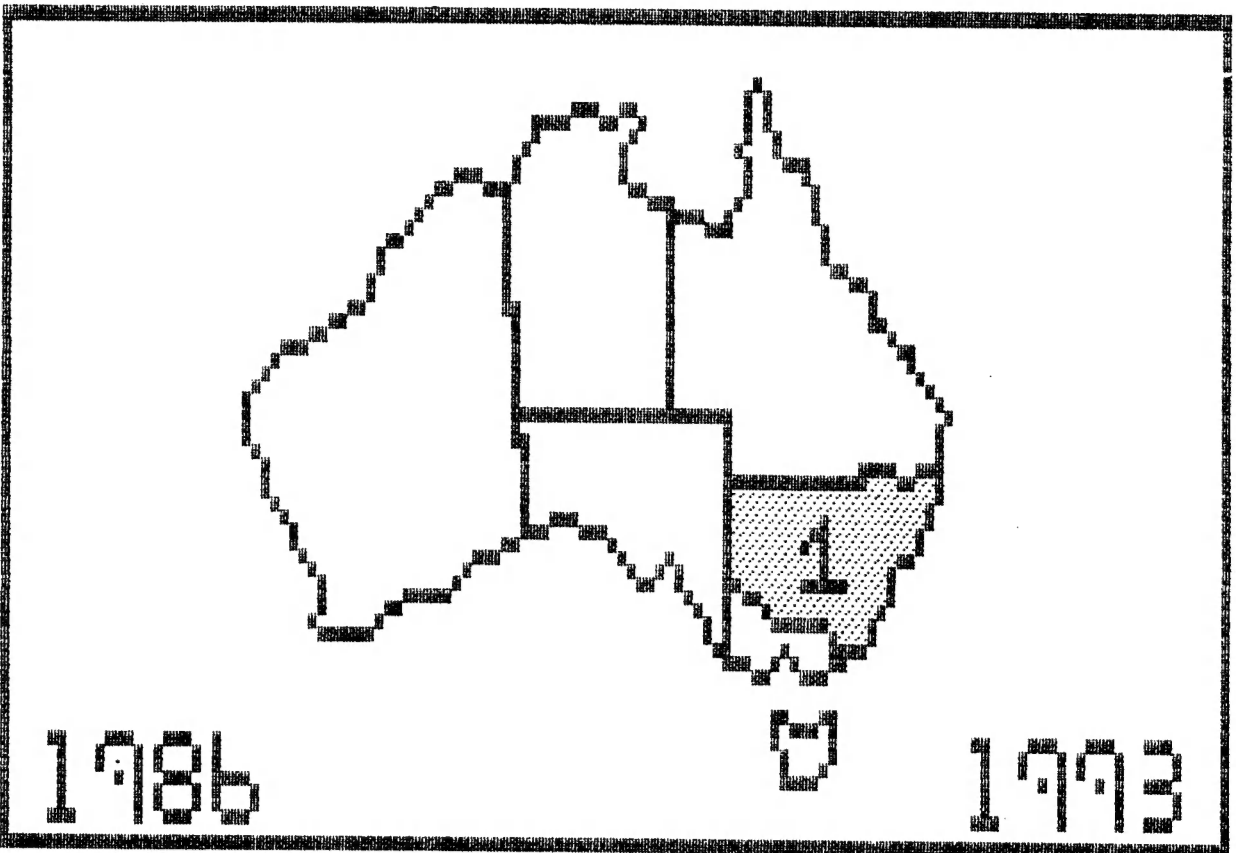


HUNTER VALLEY  
VZ  
JOURNAL

HAPPY 7TH BIRTHDAY



PRODUCED BY JOSEPH P. LEON  
A NON PROFIT PUBLICATION

**FRONT COVER**

MY THANKS TO JASON OAKLEY FOR DESIGNING TOP HALF WHILE THE REST IS SELF EXPLANATORY. FOR THOSE WHO CAN'T WORK OUT WHAT THE 1 STANDS FOR THEN TURN TO PAGE 3.

**HELP - SELL & TELL** **PAGE 3**

7TH BIRTHDAY, APOLOGIES, NEXT/FUTURE AND BACK ISSUES.

**BUGS REPORT FOR DOS V1 .2** **PAGE 4**  
**BY LESLIE MILBURN**

LESLIE HAS FOUND SOME BUGS IN DOS AND IS SHARING IT WITH OTHER DOS USERS. THANKS LESLIE.

**DISABLING BREAK KEY** **PAGES 4-8**  
**BY LESLIE MILBURN**

LESLIE SHOWS US HOW TO CREATE BREAK KEY PROOF BASIC PROGRAMS. IF YOU HAVE WANTED TO LOCK UP YOUR PROGRAMS FOR WHATEVER REASON YOU CAN NOW DO SO.

**INTRODUCTION TO PROGRAMMING** **PAGES 8-11**  
**PART II BY BOB KITCH**

BOB CONCLUDES HIS ESSAY INTO MORE STRUCTURED PROGRAMMING AND MOST OF US SHOULD BENEFIT FROM HIS EFFORTS.

**WP FILE RETRIEVE** **PAGES 11-15**  
**BY DAVE MITCHELL**

THE ABOVE DISK UTILITY HAS BEEN DESIGNED TO RESURRECT WP FILE DISKS WHOSE TRACK ZERO ARE UNREADABLE. I FOUND OUT IT CAN DO MORE THAN THAT.

**PREVENTITIVE DISK MAINTAINANCE** **PAGE 15**

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**PART I - SUPPLEMENT**

THE LAST INDEX COVERING ISSUES 1 TO 24 WAS PUBLISHED IN ISSUE 24, MAY/JUNE 1989. THIS CURRENT INDEX COVERS ISSUES 1 TO 20 WITH 21 TO 44 PLANNED FOR NEXT ISSUE. THE REASON FOR REPEATING THE FORMER IS THAT THE MAJORITY OF REMAINING SUBSCRIBERS WERE NOT MEMBERS AT THAT TIME.

**DISCLAIMER:** EVERY EFFORT IS MADE TO INSURE THE ACCURACY OF INFORMATION CONTAINED WITHIN BE IT GENERAL, TECHNICAL, PROGRAMMING, ETC. NO RESPONSIBILITY CAN BE ACCEPTED BY HUNTER VALLEY VZ USERS' GROUP OR AUTHOR AS A RESULT OF APPLYING SUCH INFORMATION IN PRACTICE.

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## BY LESLIE MILBURN

1. IF YOU USE CLOSE IN IMMEDIATE MODE, THE FILE BUFFER IS NOT FLUSHED TO DISK.
2. WHEN SAVING STRINGS TO DISK USING PR#, THE STRING MUST NOT CONTAIN A COMMA, COLON OR CARRIAGE RETURN.
3. THE 116 BYTES OF "UNUSED MEMORY" IN THE COMMUNICATIONS REGION (7A29H - 7A9CH) IS USED BY THE IN# COMMAND. THIS MEANS THAT KSCAN, MOUSE DRIVER 1.04 AND FIND WILL BE DESTROYED IF A BASIC PROGRAM USING IN# IS RUN.
4. THE MAXIMUM NUMBER OF CHARACTERS (BYTES) THAT CAN BE READ BY ONE IN# COMMAND IS 199. THIS IS REGARDLESS OF THE NUMBER OF VARIABLE ARGUMENTS.
5. DO NOT USE ANY OTHER DISK COMMANDS WHILE A DATA FILE IS OPEN, OTHER THAN OPEN, CLOSE, IN# AND PR#, OTHERWISE CORRUPT DATA COULD RESULT.
6. WHEN A BASIC PROGRAM PERFORMS A LOT OF STRING MANIPULATION, THE "GARBAGE COLLECTOR" OCCASIONALLY TAKES CONTROL AND REARRANGES THE BASIC STRING SPACE. IF THIS HAPPENS WHILE YOU ARE SAVING STRINGS TO DISK VIA PR#, A CORRUPT DATA FILE WILL OCCUR AS THE STRINGS HAVE BEEN MOVED WITHOUT PR# KNOWING ABOUT IT.

IF ANYBODY HAS FOUND ANY OTHER BUGS IN ANY DOS SYSTEM, PLEASE INFORM THE EDITOR WHO CAN PASS THE INFORMATION ON TO OTHER USERS.

## CREATING BREAK KEY PROOF BASIC PROGRAMS BY LESLIE MILBURN

WHEN I FIRST BOUGHT MY VZ NEARLY 9 YEARS AGO, ONE OF THE FIRST THINGS I WANTED TO DO WAS TO DISABLE THE BREAK KEY TO STOP PEOPLE LISTING MY BASIC PROGRAMS. WHEN I ENQUIRED FURTHER I WAS TOLD THAT IT COULD NOT BE DONE. HOWEVER, IT CAN AND FAIRLY EASILY!

### ABOUT THE BREAK KEY

THE MAIN PROBLEM WHEN DEALING WITH THE BREAK KEY IS THAT MANY OF THE ROM ROUTINES CHECK FOR IT IN DIFFERENT WAYS.

THE ORIGINAL LEVEL II BASIC ROM ROUTINES CHECK THE BREAK KEY VIA TWO MAIN ROUTINES AND REPLACING THESE IS NOT DIFFICULT. KSCAN (REFER JOURNAL #38) DOES EXACTLY THAT.

UNFORTUNATELY, THE ROM ROUTINES WHICH HAVE BEEN ADDED SPECIFICALLY FOR THE VZ (I.E. EXTENSIONS TO THE LEVEL II BASIC) HAVE THE BREAK KEY CHECKS IN ROM AND CANNOT BE INTERCEPTED. THESE ROUTINES CORRESPOND TO THE FOLLOWING BASIC COMMANDS:-

CLOAD, COPY, CRUN, CSAVE, INPUT#, PRINT#, LPRINT, SOUND, VERIFY

NOTICE THAT ALL OF THESE COMMANDS DEAL WITH EITHER CASSETTE, PRINTER OR SPEAKER I/O. ALSO NOTE THAT IF YOU HAVE A DISK DRIVE ATTACHED, ALL DISK BASIC COMMANDS CHECK THAT THE MINUS KEY IS PRESSED (NOT CTRL-MINUS). THIS MAY NOT BE THE CASE FOR YOUR DISK CONTROLLER AS VARIATIONS EXIST.

AS YOU CAN SEE, THIS IS VERY SIMILAR TO THE PREVIOUS M/C ROUTINE EXCEPT THAT THE BREAK KEY ROUTINE IS INSTALLED PRIOR TO RUNNING THE BASIC PROGRAM. THIS MEANS THAT THE BREAK KEY ROUTINE MUST BE SAVED ALONG WITH THE HEADER & BASIC PROGRAM. SEE BELOW FOR FURTHER DETAILS.

USING THIS TECHNIQUE WE CAN NOW SAVE A BASIC PROGRAM AS AN AUTO-EXECUTING PROGRAM WHICH DISABLES THE BREAK KEY. IMMEDIATE MODE CAN ONLY BE ENTERED IN THREE CASES:-

- (1) THE BREAK KEY WAS PRESSED WHILE THE PROGRAM WAS PERFORMING CASSETTE, PRINTER, SPEAKER OR DISK I/O
- (2) A COMMAND WAS EXECUTED WHICH RETURNS TO IMMEDIATE MODE. THESE COMMANDS ARE:-

LIST, LLIST, STOP, END & NEW

- (3) AN ERROR OCCURRED AND NO ERROR HANDLER WAS INSTALLED.

(I.E. NO ON ERROR COMMAND WAS INCLUDED IN THE PROGRAM).

THEREFORE, YOUR PROGRAM CANNOT BE LISTED ONCE RUN UNLESS ONE OF THE ABOVE CONDITIONS OCCUR.

WHAT IF THE PROGRAM IS BLOAD'ED NOT BRUN?

AS MENTIONED ABOVE, THE BREAK KEY ROUTINE MUST BE SAVED ALONG WITH THE BASIC PROGRAM AND M/C HEADER. THE TECHNICAL REFERENCE MANUAL DISCUSSES THREE METHODS FOR RESERVING MEMORY FOR A MACHINE CODE SUBROUTINE. TWO OF THESE ARE SUITABLE FOR OUR PURPOSE.

ONE METHOD INVOLVES INCREASING THE END OF BASIC POINTER AND SAVING THE M/C ROUTINE IN THE GAP CREATED AFTER THE BASIC PROGRAM. ONE DISADVANTAGE OF THIS METHOD IS THAT AS THE BASIC PROGRAM GROWS, THE M/C START ADDRESS CHANGES.

THE OTHER METHOD INVOLVES MOVING THE START OF BASIC POINTER THUS RESERVING MEMORY BETWEEN THE END OF THE COMMUNICATIONS REGION AND THE NEW START OF BASIC.

THE LATTER METHOD IS MORE FAVOURABLE FOR AN IMPORTANT REASON, WHAT IF THE BREAK PROTECTED PROGRAM IS BLOAD'ED NOT BRUN. IF THIS OCCURS THE PROGRAM CAN BE LISTED BUT NOT ALTERED AS THE START AND END OF BASIC POINTERS ARE NOT CORRECT. TO PREVENT THE PROGRAM FROM BEING ABLE TO BE LISTED WE MUST FOOL THE BASIC INTERPRETER INTO BELIEVING THAT THE PROGRAM AREA IS EMPTY.

THIS IS DONE BY SETTING THE FIRST TWO BYTES IN THE PROGRAM AREA TO NULL BYTES. AS MOST USERS DO NOT BOTHER TO ALTER THE START OF BASIC POINTER FROM ITS DEFAULT VALUE WE CAN ASSUME THAT IT IS SET TO 31465 AND STORE NULL IN 31465 & 31466.

WE CAN NOW LIST THE STEPS TO CREATE A "BREAK KEY PROOF, AUTO-STARTING, NON-LISTABLE" BASIC PROGRAM. THESE ARE AS FOLLOWS:-

- (1) INCREASE THE START OF BASIC POINTER AT 30884/5 SUFFICIENTLY TO STORE THE M/C ROUTINES.
- (2) TYPE IN THE BASIC PROGRAM. NOTE THAT THE PROGRAM CANNOT BE LOADED FROM TAPE OR DISK WITHOUT THE AID OF A UTILITY. THIS IS BECAUSE PROGRAMS ARE ALWAYS LOADED BACK TO THE SAME ADDRESS THAT THEY WERE SAVED FROM.

```

071 ;INTR: NEW INTERRUPT          096      CALL 3430H
072 ;      ROUTINE.              097 ;REMOVE RETURN ADDRESS SO
073 ;                              098 ;THAT THE ROM ROUTINE IS
074 ;      NOTE: REGISTERS HAVE   099 ;BY-PASSED.
075 ;      BEEN SAVED UPON       100      POP HL
076 ;      ENTRY TO THIS         101 ;RESTORE PREVIOUSLY SAVED
077 ;      FUNCTION.             102 ;REGISTERS.
078 ;                              103      POP HL
079 INTR CALL 3F7BH              104      POP DE
080 ;DISPLAY THE CURSOR          105      POP BC
081      CALL 2EDCH              106      POP AF
082 ;SCAN THE KEYBOARD          107 ;ENABLE INT'S AND RETURN.
083      CALL 002BH              108      EI
084 ;SAVE THE KEY CODE          109      RETI
085      PUSH AF                 110 ;*****
086 ;IF IN INPUT PHASE THEN     111 ;SCAN: THIS FUNCTION SCANS
087 ;DISPLAY CHARACTER, UPDATE   112 ;      THE KEYBOARD.
088 ;SCREEN POSITION, ETC.       113 ;
089      LD HL,7839H            114 SCAN CALL 2EFDH
090      BIT 0,(HL)              115      CP 1
091      CALL Z,301BH            116      RET NZ
092 ;RESTORE KEY CODE.          117      LD A,0
093      POP AF                  118      RET
094 ;SOUND A BEEP IF KEY WAS     119 END EQU $
095 ;PRESSED.

```

## INTRODUCTION TO PROGRAMMING PART II BY BOB KITCH

AS MENTIONED IN PART 1 OF THIS SERIES, THE PROGRAMMING TASK IS A LARGE AND COMPLEX FEAT OF ORGANIZATION AND REQUIRES A WIDE RANGE OF SKILLS. IT IS POSSIBLE, AND BEST, TO BREAK THE TASK DOWN INTO SIX SEGMENTS - EACH OF WHICH MUST BE THOUGHT ABOUT, PLANNED AND THEN CARRIED OUT TO ENSURE THE SUCCESSFUL COMPLETION OF A SOFTWARE PROJECT.

EVEN A SMALL PROGRAM REQUIRES THAT A CURSORY CONSIDERATION OF THE SIX SEGMENTS BE MADE - ALTHOUGH SOME OF THEM MAY BE QUICKLY PASSED OVER AS TRIVIAL. BUT IT IS CERTAIN THAT LARGER PROGRAMS (MORE THAN 200 LINES) REQUIRE CAREFUL PLANNING FOR SUCCESS.

BEFORE DESCRIBING THE SIX STEPS, IT IS WORTH THINKING ABOUT "WHAT MAKES A GOOD PROGRAM?"

A PROGRAM MAY BE JUDGED FROM A NUMBER OF DIFFERENT STANDPOINTS; EACH IS NOT NECESSARILY MUTUALLY EXCLUSIVE AND SOMETIMES SOME CONFLICTS REQUIRE THAT A TRADE-OFF BE MADE.

THE FIRST CRITERIA IS THAT A PROGRAM SHOULD BE EFFICIENT. EFFICIENCY CAN BE CONSIDERED FROM A NUMBER OF VARYING VIEW POINTS. FOR EXAMPLE, OPTIMIZATION OF THE RUN-TIME CAN BE CONSIDERED AS EFFICIENT. ALSO, REDUCTION IN STORAGE REQUIREMENTS FOR BOTH PROGRAM CODE AND VARIABLES CAN BE CONSIDERED AS EFFICIENT PROGRAMMING.

FURTHERMORE, AND PARTICULARLY IF ONE IS DEVELOPING SOFTWARE COMMERCIALY, THEN EFFICIENCY CAN BE MEASURED IN TERMS OF THE ACTUAL TIME REQUIRED TO GET AN APPLICATIONS PROGRAM RUNNING AND THE EASE OF MAINTENANCE OF THAT CODE. THE USE OF APPROPRIATE DATA TYPES AND DATA STRUCTURES CAN GREATLY IMPROVE THE EFFICIENCY OF A PROGRAM. THE SELECTION OF A SUITABLE ALGORITHM CAN ALSO ASSIST. FINALLY, EASE OF DEBUGGING SO THAT THE PROGRAM CAN BE UPDATED OR MODIFIED MAY BE CONSIDERED DESIRABLE.

NEXT, DEFINE THE OUTPUT EXPECTED FROM THE PROGRAM. IS IT TO WRITE TO TAPE AND IN WHAT FORMAT? PERHAPS IT IS TO BE SCREEN ORIENTED - CAN SOUND BE USED - OR PERHAPS VOICE SYNTHESIS TO TELL THE OPERATOR WHAT IS GOING ON? PLAN VERY CAREFULLY AND FULLY THE LAYOUT OF THE EXPECTED OUTPUT AS THIS IS HOW USERS WILL INITIALLY PERCEIVE THE QUALITY OF THE PROGRAM.

AFTER DEFINING THE I/O FOR THE PROGRAM WE SHOULD NOW HAVE A FEEL FOR THE ANTICIPATED RANGE OF PARAMETERS THAT THE PROGRAM IS MEANT TO ACCEPT AND ALSO HANDLE. THIS BRINGS IN THE VERY IMPORTANT CONCEPT OF DEFINING THE BOUNDS WITHIN WHICH THE PROGRAM MUST FUNCTION CORRECTLY. FOLLOWING ON FROM THIS, IS RANGE CHECKING OF ALL INPUT PARAMETERS SO THAT THE PROGRAM CANNOT GO BEYOND THE RANGE THAT IT WAS DESIGNED FOR AND GIVE UNEXPECTED RESULTS.

A NUMBER OF WARNING MESSAGES MUST BE BUILT INTO THE PROGRAM ALONG WITH ERROR CAPTURE AND RECOVERY ROUTINES. IT IS FAILURE TO DEFINE THE OPERATING BOUNDS OF A PROGRAM THAT CAUSES MOST CRASHES OR ROGUE BEHAVIOUR. EVEN THE DEFINITION OF INTEGER VARIABLES AT THIS STAGE CAN ASSIST BY IMPROVING PROGRAM EXECUTION TIME AND REDUCING STORAGE REQUIREMENTS.

THE DEFINITION STAGE SHOULD BE ROUGHED OUT ON PIECES OF PAPER KEPT FOR LATER REFERENCE. PERHAPS BETTER, IS TO USE AN OLD EXERCISE BOOK. ANOTHER BENEFIT OF THIS IS THAT OVER A PERIOD OF MONTHS YOUR PROGRESS CAN BE MEASURED AND YOUR GROWTH OF PROGRAMMING IDEAS RECORDED. ANOTHER BENEFIT (ALTHOUGH I HARDLY DARE MENTION IT!) IS THAT IF, AFTER THE CODING STAGE, A SYSTEM CRASH OCCURS AND YOU DIDN'T SAVE THE PROGRAM, THEN ALL IS NOT LOST - AT LEAST AN OUTLINE OF THE PROGRAM REMAINS.

#### 4. DESIGN PHASE

HAVING SORTED OUT I/O AND OPERATING BOUNDS, THE ACTUAL SELECTION OF AN ALGORITHM TO ACHIEVE THE RESULT IS COMMENCED. BY THIS TIME SOME IDEA OF THE NUMBER OF VARIABLES REQUIRED AND THEIR TYPE SHOULD HAVE BEGUN TO GEL.

THIS IS ALSO THE STAGE WHERE YOUR BASIC HONESTY IN STAGES 1 AND 2 MAY CATCH UP WITH YOU! DATA STRUCTURE ORGANISATION AND ALGORITHM SELECTION ARE REALLY EXPERIENCE-RELATED SKILLS - HENCE THE SUGGESTION TO READ AND/OR MODIFY EXISTING PROGRAMS. BUT DO NOT DESPAIR - PRACTICE MAKES PERFECT.

#### 5. IMPLEMENTATION PHASE

TO DATE VERY LITTLE ACTUAL CODING SHOULD HAVE BEEN DONE; IN FACT THE COMPUTER NEED NOT EVEN HAVE BEEN TURNED ON! SOME PEOPLE MAY BE SURPRISED AT HOW LATE IN THE TASK THE COMPUTER ACTUALLY ENTERS INTO THE PICTURE. AN AWFUL LOT OF PLANNING AND ORGANIZING CAN BE DONE OFF THE COMPUTER AND ON THE "BACKS OF OLD ENVELOPES".

IT IS ALSO AT THIS STAGE THAT THE CHOICE OF PROGRAMMING LANGUAGE SHOULD BE MADE. IS THE PROGRAM TIME DEPENDANT? IF IT IS, THEN IT SHOULD PROBABLY BE WRITTEN IN ASSEMBLER.

IF THE ACTUAL TIMING IS NOT SO CRITICAL THEN WRITING IN BASIC WITH ITS DIAGNOSTICS AND HELPFUL FEATURES (SO TYPICAL OF A HIGH LEVEL LANGUAGE) DEEM IT SENSIBLE. EXPERIENCED PROGRAMMERS WILL PROBABLY USE A BIT OF EACH IN PRACTICE. A VERY SENSIBLE COMPROMISE IS TO DEVELOPE THE PROGRAM IN INTERPRETED BASIC AND ONCE FINALIZED AND DEBUGGED, COMPILE THE BASIC CODE TO SPEED UP EXECUTION.

```

001 ;ROUTINE FOR GETTING
002 ;E&F WORDPROCESSOR
003 ;FILES FROM DISK WHEN
004 ;TRACK ZERO IS UNREADABLE
005     LD     HL,A0
006     LD     (788EH),HL
007 A0    LD     HL,END
008     LD     (ADD),HL
009     LD     HL,M1
010     CALL  IPUT
011     CALL  ATB
012     LD     (ADD1),A
013     LD     HL,M2
014     CALL  IPUT
015     CALL  ATB
016     LD     (ADD2),A
017     LD     HL,M4
018     CALL  IPUT
019     LD     A,20H
020     LD     (DE),A
021     PUSH  IY
022     POP   DE
023     INC  DE
024     LD     BC,8
025     LDIR
026     DI
027     CALL  4008H
028     LD     BC,0032H
029     CALL  4038H
030     CALL  4011H
031     OR     A
032     JP     NZ,400EH
033     LD     A,(ADD1)
034     LD     (IY+12H),A
035     LD     A,(ADD2)
036     LD     (IY+11H),A
037 A1    LD     L,(IY+34H)
038     LD     H,(IY+35H)
039     LD     A,(IY+12H)
040     DEC  A
041     SLA  A
042     LD     E,A
043     LD     D,0
044     LD     A,(IY+11H)
045     CP     8
046     CCF
047     ADC  HL,DE
048     AND  7
049     INC  A
050     LD     B,A
051     LD     C,(HL)
052     RLC  C
053 A13   RRC  C
054     DJNZ A13
055     SET  0,C
056     LD     B,A
057     RRC  C
058 A14   RLC  C
059     DJNZ A14
060     LD     (HL),C
061     CALL  4035H
062     OR     A
063     JP     NZ,400EH
064     LD     L,(IY+31H)
065     LD     H,(IY+32H)
066     LD     DE,(ADD)
067     LD     BC,007EH
068     LDIR
069     LD     (ADD),DE
070     LD     A,(HL)
071     OR     A
072     JR     Z,A2
073     LD     (IY+12H),A
074     INC  HL
075     LD     A,(HL)
076     LD     (IY+11H),A
077     JR     A1
078 A2    DEC  DE
079     LD     A,(DE)
080     OR     A
081     JR     Z,A2
082     INC  DE
083     LD     HL,END
084     EX  DE,HL
085     XOR  A
086     SBC  HL,DE
087     EX  DE,HL
088     LD     HL,0D0000H
089     XOR  A
090     SBC  HL,DE
091     LD     (ADD),HL
092     CALL  402CH
093     OR     A
094     JP     NZ,400EH
095     CALL  402FH
096     OR     A
097     JP     NZ,400EH
098     LD     (HL),57H
099     INC  HL
100     LD     (HL),3AH
101     INC  HL
102     PUSH HL
103     POP  DE
104     PUSH IY
105     POP  HL
106     INC  HL
107     LD     BC,8
108     LDIR
109     LD     A,(ADD1)
110     LD     (DE),A
111     INC  DE
112     LD     A,(ADD2)
113     LD     (DE),A
114     INC  DE
115     LD     HL,(ADD)
116     LD     A,L
117     LD     (DE),A
118     INC  DE
119     LD     A,H
120     LD     (DE),A
121     INC  DE
122     LD     A,0
123     LD     (DE),A
124     INC  DE

```

ALL THE UTILITIES MENTIONED WILL PROVIDE THE INFORMATION REQUIRED SIMILAR TO WHAT IS SHOWN BELOW. IF YOU'RE LIKE ME THEN YOU'LL HAVE A MIXTURE OF FILES ON THE ONE DISK. I TRIED WPRET PROCEDURE AND FOUND THAT WPRET IS MORE VERSATILE THAN I FIRST THOUGHT.

## BEFORE WPRET PROCEDURE

```
T:PLOTTO-2 01 00 7AE9 98D7 1DEE
B:PARK2    04 0D 9000 90E3 00E3
B:DIRA     04 0F 7200 72E5 00E5
D:LOTTO    05 01 0000 0000 0000
B:MAPAUST  05 04 7000 7800 0800
W:INST-1   06 05 CB52 D000 04AE
W:INST-2   06 0F C927 D000 06D9
7 FILE(S)          64.375K FREE
```

## AFTER WPRET PROCEDURE

```
W:PLOTTO-2 01 00 B212 D000 1DEE
W:PARK2    04 0D CF1D D000 00E3
W:DIRA     04 0F CF1B D000 00E5
W:LOTTO    05 01 CF00 D000 0100
W:MAPAUST  05 04 C800 D000 0800
W:INST-1   06 05 CB52 D000 04AE
W:INST-2   06 0F C927 D000 06D9
7 FILE(S)          64.375K FREE
```

## AFTER FILETYPE CHANGE

```
T:PLOTTO-2 01 00 B212 D000 1DEE
B:PARK2    04 0D CF1B D000 00E3
B:DIRA     04 0F CF1B D000 00E5
D:LOTTO    05 01 CF00 D000 0100
B:MAPAUST  05 04 C800 D000 0800
W:INST-1   06 05 CB52 D000 04AE
W:INST-2   06 0F C927 D000 06D9
7 FILE(S)          64.375K FREE
```

## AFTER START ADDRESS CHANGE

```
T:PLOTTO-2 01 00 7AE9 98D7 1DEE
B:PARK2    04 0D 9000 90E3 00E3
B:DIRA     04 0F 7200 72E5 00E5
D:LOTTO    05 01 0000 0100 0100
B:MAPAUST  05 04 7000 7800 0800
W:INST-1   06 05 CB52 D000 04AE
W:INST-2   06 0F C927 D000 06D9
7 FILE(S)          64.375K FREE
```

## BEFORE WPRET PROCEDURE

THIS SHOWS DIRECTORY PRINTOUT OF DISK BEFORE EXPERIMENTATION WITH ALL INFORMATION NEEDED TO RESURECT ALL FILES.

## AFTER WPRET PROCEDURE

I FORMATTED TRACK ZERO, RAN CHKDSK AND THEN WPRET AND PRINTOUT SHOWS RESULT. PLEASE NOTE THAT ALL FILES HAVE 'W' FILETYPE AND END ADDRESS OF D000 WHICH IS STANDARD FOR DAVE MITCHELL WP FILES. ALSO NOTE THAT WPRET WORKED OUT SIZE OF FILES WHICH IS SHOWN ALSO.

## AFTER FILETYPE CHANGE

THE TWO WP FILES INST-1 & INST-2 NEED NO CHANGING AT ALL TO BE USED. THE REST DO THOUGH AND I USED LESLIE MILBURN'S EXT12.2 TO CHANGE FILETYPES AND ONCE AGAIN PRINTOUT SHOWS RESULT. PLEASE NOTE SYNTAX FOR FILETYPE CHANGE:

```
CHA"PLOTTO-2",T
```

## AFTER START ADDRESS CHANGE

AFTER CHANGING FILETYPES I CHANGED START ADDRESSES USING THE FOLLOWING SYNTAX:

```
REL"PLOTTO-2",7AE9
```

THE LAST DIRECTORY PRINTOUT SHOWS RESULT. IF YOU COMPARE IT WITH THE FIRST YOU'LL NOTE IT IS IDENTICAL EXCEPT FOR THE DATA FILE WHICH HAS AN END ADDRESS OF 0100 WITH CORRESPONDING FILE SIZE. IT IS NO PROBLEM AS IT LOADED OK WITH NO CORRUPTION EVIDENT IN IT AND ALL OTHER FILES AS WELL.



**E & F WP PATCH 3.3: \$20.00** PATCH 3.3 WRITTEN BY DAVE MITCHELL WILL CONVERT YOUR E & F TAPE WORD PROCESSOR FOR FULL DISK USE WHILE RETAINING ALL ORIGINAL FUNCTIONS. IT ALSO HAS SHIFT LOCK AND PRINTER CONTROL CODES WHICH CAN BE IMBEDDED IN TEXT AND SAVED TO TAPE OR DISK. **BSTWP.F**: THIS UTILITY PROVIDED WITH PATCH 3.3 WILL CONVERT BASIC PROGRAMS AND Ed/ASS. SOURCE CODE FILES INTO WORD PROCESSOR FILES.

**DISK FILER CATALOGUER: \$25.00** IF YOU HAVE TROUBLE FINDING SOME OF YOUR PROGRAMS THEN THIS NEW DISK CATALOGUEING UTILITY MIGHT BE JUST WHAT THE DISK DOCTOR ORDERED. DISK FILER IS A DATABASE THAT WILL READ, SORT & PRINT YOUR DISK DIRECTORIES. FINDING ANY FILE WILL BE AS EASY AS LOOKING AT A CATALOGUE.

**EXTENDED DOS V1.3: \$15.00** THESE COMMANDS ARE AT YOUR DISPOSAL: MERGE, DIRA, DIRB, LDIRB, OLD, OLD., DEC, HEX, MENU, CODE, LTAB, MOVE AND UPDATE, STATUSA AND LSTATUSA. STATUSA AND LSTATUSA ALSO WORKS WITH VERSION 1.0 DOS

**MENU/FILE COPIER - \$15.00** THIS UTILITY WILL READ YOUR DISK DIRECTORY AND PRESENT YOU WITH SEVERAL OPTIONS. USING THE CURSOR YOU CAN RUN/BRUN ANY PROGRAM OR SELECT FILE COPY, REN, ERASE, DRIVE 1 OR 2, ETC. BESIDES COPYING TEXT AND BINARY FILES ALL OTHER FILES CAN BE COPIED AS WELL EXCEPT FOR DATA FILES.

PRICES INCLUDE POSTAGE - FOR PURCHASE OR INFORMATION CONTACT:  
DAVE MITCHELL 24 ELPHINSTONE STREET NORTH ROCKHAMPTON 4701  
QUEENSLAND AUSTRALIA - PHONE: (079) 27 8519

### CONTRIBUTIONS TO THE JOURNAL

IF YOU ARE THINKING OF CONTRIBUTING TO THE JOURNAL THE PREFERRED FORMAT IS BASIC LISTINGS, WORD PROCESSOR OR SOURCE CODE FILES ON TAPE OR DISK. FILES FROM THE FOLLOWING WORD PROCESSORS CAN BE ACCEPTED :-

E & F TAPE OR DISK PATCH 3.1-3.3, WORDPRO CARTRIDGE, WORDPRO PATCH, ALL SOURCE CODE FILES AND ALL QUICKWRITE WORD PROCESSOR FILES.

### CLUB MEETINGS - ALL WELCOME

MEETINGS WILL BE APPROXIMATELY ONCE A MONTH. BECAUSE SOME LOCAL MEMBERS WORK SHIFTWORK MEETING DATES WILL BE ADJUSTED TO ACCOMODATE THEM. WHETHER YOU ARE A LOCAL MEMBER, INTRA OR INTERSTATE VISITOR PLEASE CHECK WITH JOE LEON FIRST.

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**NOTE:** WHEN WRITING TO ANY ABOVE OR H.V.VZ. USERS' GROUP FOR INFORMATION PLEASE ENCLOSE A S.S.A.E. OR NZ 2 INT. REPLY COUPONS.

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